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April 18, 2003

Mary L. Cottrell, Secretary
Department of Telecommunications and Energy
One South Station
Boston, MA 02110

Re: Boston Edison Company d/b/a NSTAR Electric, D.T.E. 02-80A, Responses to
Information Requests

Dear Secretary Cottrell:

Enclosed for filing in the above-referenced matter is the response of Boston Edison Company d/b/a NSTAR Electric to the Information Requests set forth on the accompanying list.

Thank you for your attention to this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert N. Werlin" followed by a stylized flourish.

Robert N. Werlin

Enclosures

cc: William Stevens, Hearing Officer
Service List

Responses to Information Requests

Information Response DTE-4-5

April 18, 2003

Information Request DTE-4-5

Refer to Exhibit BEC-JFL-1, at 5 (Supp) which states: "Note: 2002 Col. B per Page 2 adj for BETG Carrying Charge Adjustment." Please describe with supporting schedules how this adjustment was performed and show the incremental impacts of this adjustment on all affected schedules.

Response

During the process of researching the answer to this question, an error was discovered in the formula contained in the spreadsheet that calculates Cumulative Bonus Allowed (Exhibit BEC-JFL-1 (Supp), Column D).¹ The corrected exhibit is shown as Attachment DTE-4-5(a)². Changes from BEC-JFL-1 (Supp) are shaded. The impact on the Nominal Annual Incremental Bonus Required (Column E) is shown in Table 1:

Table 1 – Correction of Nominal Incremental Bonus Required

Year	As Filed	Corrected	Difference
2000	\$0.000 million	\$0.000 million	\$0.000 million
2001	\$52.467	\$52.269	\$(0.198)
2002	\$14.596	\$14.427	\$(0.169)
2003(F)	\$10.107	\$10.140	\$0.033
2004(F)	\$ 9.434	\$ 9.643	\$0.209
2005(F)	\$ 4.987	\$ 5.073	\$0.086
2006(F)	\$ 4.537	\$ 4.423	\$(0.114)
2007(F)	\$ 5.201	\$ 5.179	\$(0.022)
2008(F)	\$ 3.753	\$ 3.820	\$0.067
2009(F)	\$ 2.734	\$ 2.767	\$0.033

Note: Amounts for 2003 – 2009 are forecasted.

To answer the question, Attachment DTE-4-5(b) shows the corrected exhibit without excluding the BETG Carrying Charge Adjustment from mitigation

¹ The formula in Column D was not correctly interpolating for the third significant digit of the Cumulative Average Rolling Transition Charge, when performing the table lookup for the Cumulative Bonus Allowed. The error in any given year was between \$0 and approximately \$300,000, which, because of the cumulative nature of the calculation would reverse in the subsequent year and be introduced again.

² The prior overcollection of \$36.187M on page 1 has been decreased by the \$0.198 reduction in incentive mitigation shown for 2001 in Table 1.

incentive calculations. Changes from Attachment DTE-4-5(a) are shaded. The attachment shows that the impact of not excluding this adjustment results in a lower 2002 Base Transition Charge in Col. B (1.566 versus 1.579) for the purpose of determining the Nominal Annual Incremental Bonus Required in Col. E. The lower Base Transition Charge would have the impact of increasing the Nominal Annual Incremental Bonus Required by \$0.130 million. Table 2 shows this impact and the impact forecasted in subsequent years.

Table 2 – Impact of BETG Adjustment on Nominal Incremental Bonus Required

Year	Per Attachment DTE-4-5(a)	Per Attachment DTE-4-5(b)	Difference
2002	\$14.427 million	\$14.557 million	\$0.130 million
2003(F)	\$10.140	\$10.129	\$(0.011)
2004(F)	\$ 9.643	\$ 9.624	\$(0.019)
2005(F)	\$ 5.073	\$ 5.064	\$(0.009)
2006(F)	\$ 4.423	\$ 4.414	\$(0.009)
2007(F)	\$ 5.179	\$ 5.115	\$(0.064)
2008(F)	\$ 3.820	\$ 3.815	\$(0.005)
2009(F)	\$ 2.767	\$ 2.763	\$(0.004)

Note: Amounts for 2003 – 2009 are forecasted.

Boston Edison Company
Transition Charge Calculation
\$ in Millions

Year	Revenues		GWH	Transition Charge	Total		Prior Year Deferral	Interest on Deferral	Expenses		(Over) Under Collection
	Col. A	Col. B	Col. C	Col. D	Fixed Component	Variable Component	Col. G	Col. H	Col. I	Col. J	Col. K
2001											
2002		14,579	1,566	228,254	\$ 106,138	\$ 106,594	\$ 14,427	\$ (36,385)	\$ (3,959)	\$ 186,815	\$ (36,385)
2003		14,669	1,840	269,908	100,707	209,115	10,140	(41,439)	(4,509)	274,015	4,107
2004		14,962	1,740	260,288	96,719	149,373	9,643	4,107	0,447	260,288	-
2005		15,262	2,072	316,292	91,872	219,347	5,073	-	-	316,292	-
2006		15,567	2,023	314,986	87,222	223,341	4,423	-	-	314,986	-
2007		15,878	1,745	277,051	82,339	189,533	5,179	-	-	277,051	-
2008		16,196	1,640	265,621	77,756	184,045	3,820	-	-	265,621	-
2009		16,520	1,587	262,109	72,833	186,509	2,767	-	-	262,109	-
2010		16,850	1,250	210,610	15,174	195,436	-	-	-	210,610	-
2011		17,187	1,001	172,044	-	172,044	-	-	-	172,044	-
2012		17,531	0,586	102,808	-	102,808	-	-	-	102,808	-
2013		17,881	0,568	101,491	-	101,491	-	-	-	101,491	-
2014		18,239	0,330	60,206	-	60,206	-	-	-	60,206	-
2015		18,604	0,368	68,471	-	68,471	-	-	-	68,471	-
2016		18,976	0,312	59,280	-	59,280	-	-	-	59,280	-

Col B 2002 per Page 2; Forecast 2003 sales; years beyond 2003 reflect 2% growth
Col C 2002 per Page 2; 2003 reflects actual tariff in effect; 2004 and later: Col J / Col B
Col D 2002 per Page 2; 2003 Col B * Col C; future years equal to Col J
Col E Exh BEC-JFL-1 (Supp), Pg 3, Col E
Col F Exh BEC-JFL-1 (Supp), Pg 4, Col I
Col G Exh BEC-JFL-1 (Supp), Pg 5, Col E
Col H Col. K prior year
Col I Col. H times 10.88%
Col J Sum Col E thru Col I
Col K Future years equal Col D - Col J

Boston Edison Company
Actual 2002 Transition Revenues
\$ in Millions

Line	Description	GWH	A/C #	Per Book \$	Total
1	2002 Transition Billed Revenues:				
2	Residential Transition	4,041.023	440 160	\$ 62.927	
3	Industrial Transition	1,399.261	442 430	22.139	
4	Commercial Transition (includes WR rate and Special Contracts)	9,110.291	442440/500	143.580	
5	Street Light Transition	146.810	444 060	2.316	
6	Total Billed Revenues	14,697.385			\$ 230.963
7	2002 Transition Unbilled Revenues:			Value	
8	Less: Residential Transition Unbilled @ 12/31/01	(149.749)			
9	Plus: Residential Transition Unbilled @ 12/31/02	119.482	440 162	\$ (0.299)	
10	Less: Industrial Transition Unbilled @ 12/31/01	(81.628)			
11	Plus: Industrial Transition Unbilled @ 12/31/02	65.129	442 435	(0.404)	
12	Less: Commercial Transition Unbilled @ 12/31/01	(355.873)			
13	Plus: Commercial Transition Unbilled @ 12/31/02	283.945	442 505	(2.006)	
14	Total Unbilled Revenues	(118.694)			\$ (2.709)
15	Total 2002 Transition Revenues	14,578.691	1.566		\$ 228.254

Boston Edison Company
Summary of Transition Charge - Fixed Component
\$ in Millions

Year	Securitization Principal	Amort.	Interest & Expense	Total
Col. A	Col. B	Col. C	Col. D	Col. E (Col. C + Col. D)
2002	493.566	69.206	36.932	106.138
2003	425.378	68.188	32.519	100.707
2004	356.666	68.712	28.007	96.719
2005	288.206	68.460	23.412	91.872
2006	219.664	68.542	18.680	87.222
2007	151.268	68.396	13.943	82.339
2008	82.660	68.608	9.148	77.756
2009	14.159	68.501	4.332	72.833
2010	-	14.159	1.016	15.174

Boston Edison Company
Summary of Transition Charge - Variable Component
\$ in Millions

Year	Actual Nuclear Decommissioning	Actual Power Total Obligations	Actual Power Contracts Market Value	Net Power Obligation	Actual Transmission in Support of Remote Generating Units	Actual Purchased Power Contract Buyouts	Actual Payments in Lieu of Property Taxes	Revenue Credits & Damages, Costs, or net Recoveries	Other	Rate Design Adjustment	Reversal of Prior Year Rate Design Adjustment	Actual Total Variable Component
Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	Col. G	Col. H	Col. I	Col. J	Col. K	Col. L	Col. M
2002	-	409,929	329,421	80,508	-	-	-	26,625	-	(0.539)	-	106,594
2003	-	371,907	199,374	172,533	-	-	-	31,653	-	4,390	0.539	209,115
2004	-	381,708	272,741	108,967	-	-	-	44,796	-	-	(4,390)	149,373
2005	-	300,288	124,055	176,233	-	-	-	43,114	-	-	-	219,347
2006	-	304,922	125,951	178,971	-	-	-	44,370	-	-	-	223,341
2007	-	305,779	120,926	184,853	-	-	-	4,680	-	-	-	189,533
2008	-	307,188	123,923	183,265	-	-	-	0,780	-	-	-	184,045
2009	-	312,981	127,252	185,729	-	-	-	0,780	-	-	-	186,509
2010	-	326,555	131,899	194,656	-	-	-	0,780	-	-	-	195,436
2011	-	273,098	101,833	171,264	-	-	-	0,780	-	-	-	172,044
2012	-	169,987	67,569	102,418	-	-	-	0,390	-	-	-	102,808
2013	-	170,844	69,353	101,491	-	-	-	-	-	-	-	101,491
2014	-	108,623	48,417	60,206	-	-	-	-	-	-	-	60,206
2015	-	118,075	49,603	68,471	-	-	-	-	-	-	-	68,471
2016	-	97,854	38,574	59,280	-	-	-	-	-	-	-	59,280

Description

2002 BEC-RAP-1 (Supp), p.5, line 15; 2003 BEC-RAP-2 (Supp), p.5, line 15; future years unchanged from DTE 00-82
2002 BEC-RAP-1 (Supp), p.4, line 16; 2003 BEC-RAP-2 (Supp), p.4, line 16; future years unchanged from DTE 00-82
Col C - Col D
No Current Buyouts
Per BEC-JFL-2 (Supp)
DTE 00-82 Settlement Rate Design Adjustment
Reversal of Prior Year Rate Design Adjustment (- Prior Year Col. K)
Col B + Col E + Col F + Col G + Col H + Col I + Col J + Col K + Col L

Boston Edison Company
Summary of Transition Charge - Incentive
\$ in Millions

Year	Col. A	Base Transition Charge (cents/kWh)	Col. B	Cumulative Rolling Average Transition Charge (cents/kWh)	Col. C	Cumulative Bonus Allowed	Col. D	Nominal Annual Incremental Bonus Required	Col. E	Impact on Transition Charge	Col. F
1998		3.085		3.08							
1999		2.626		2.86							
2000		1.818		2.51							
2001		1.331		2.21		40.462	52.269	14.427	0.36		
2002		1.579		2.09		50.937	14.427	10.140	0.10		
2003		1.840		2.05		57.844	10.140	9.643	0.07		
2004		1.741		2.00		64.004	9.643	5.073	0.06		
2005		2.072		2.01		67.044	5.073	4.423	0.03		
2006		2.023		2.01		69.530	4.423	5.179	0.03		
2007		1.745		1.99		72.261	5.179	3.820	0.02		
2008		1.640		1.95		74.150	3.820	2.767	0.02		
2009		1.587		1.92		75.433	2.767				

Legend:

2002 see Note below; 2003 and later per Page 1 Col. C
Col. B Cumulative average of current & prior years shown in Col. E
Col. C For any given year based upon cumulative average
Col. D transition charge, interpolate bonus from the table below
Col. E (Col. D current year - Col. D prior year) * (1 + WACC AT) ^ n
where n = number of years since 1998 +1, and WACC AT is
the weighted cost of capital after-tax equal to 6.61%
Col. F Col. E / Current year GWH sales, Page 1 Col. E

Assumptions:

1998 \$ NPV Cumulative Bonus/(Penalty)

Note: 2002 Col. B per Page 2 adj for BETG Carrying Charge Adjustmer

Rolling Average Access Charge		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009	
1.00	\$	21	\$	38	\$	52	\$	63	\$	72	\$	80	\$	85	\$	90	\$	93	\$	96	\$	97	\$	98	\$
1.20		20		36		49		60		68		76		81		86		89		91		92		93	
1.40		19		34		47		57		65		72		77		81		84		86		88		88	
1.60		18		32		44		53		61		68		73		77		79		81		83		83	
1.80		17		31		41		50		58		64		68		72		75		77		78		78	
2.00		16		29		39		47		54		60		64		68		70		72		73		74	
2.20		14		25		34		41		47		52		56		59		61		62		63		64	
2.40		12		21		29		35		40		44		47		50		51		53		54		54	
2.60		10		17		23		28		33		36		39		41		42		43		44		44	
2.80		8		13		18		22		25		28		30		32		33		34		34		34	
3.00		5		10		13		16		18		20		22		23		24		24		25		25	
3.20		3		6		8		10		11		12		13		14		14		15		15		15	
3.40		1		2		3		3		4		4		4		5		5		5		5		5	
3.50		0		0		0		0		0		0		0		0		0		0		0		0	

Boston Edison Company
Transition Charge Calculation
\$ in Millions

Year	GWH Delivered	Transition Charge	Revenues for Delivered GWH	Fixed Component	Total Variable Component	Mitigation Incentive	Prior Year Deferral	Interest on Deferral	Expenses	(Over) Under Collection
Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	Col. G	Col. H	Col. I	Col. J	Col. K
2001										
2002	14,579	1.566	228.254	\$ 106.138	\$ 106.594	\$ 14.557	\$ (36.385)	\$ (3.959)	\$ 186.946	\$ (36.385)
2003	14,669	1.840	269.908	100.707	209.115	10.129	(41.308)	(4.494)	274.148	4.240
2004	14,962	1.740	260.417	96.719	149.373	9.624	4.240	0.461	260.417	-
2005	15,262	2.072	316.283	91.872	219.347	5.064	-	-	316.283	-
2006	15,567	2.023	314.977	87.222	223.341	4.414	-	-	314.977	-
2007	15,878	1.744	276.987	82.339	189.533	5.115	-	-	276.987	-
2008	16,196	1.640	265.616	77.756	184.045	3.815	-	-	265.616	-
2009	16,520	1.587	262.105	72.833	186.509	2.763	-	-	262.105	-
2010	16,850	1.250	210.610	15.174	195.436	-	-	-	210.610	-
2011	17,187	1.001	172.044	-	172.044	-	-	-	172.044	-
2012	17,531	0.586	102.808	-	102.808	-	-	-	102.808	-
2013	17,881	0.568	101.491	-	101.491	-	-	-	101.491	-
2014	18,239	0.330	60.206	-	60.206	-	-	-	60.206	-
2015	18,604	0.368	68.471	-	68.471	-	-	-	68.471	-
2016	18,976	0.312	59.280	-	59.280	-	-	-	59.280	-

Col B 2002 per Page 2; Forecast 2003 sales; years beyond 2003 reflect 2% growth
Col C 2002 per Page 2; 2003 reflects actual tariff in effect; 2004 and later: Col J / Col B
Col D 2002 per Page 2; 2003 Col B * Col C; future years equal to Col J
Col E Exh BEC-JFL-1 (Supp), Pg 3, Col E
Col F Exh BEC-JFL-1 (Supp), Pg 4, Col I
Col G Exh BEC-JFL-1 (Supp), Pg 5, Col E
Col H Col. K prior year
Col I Col. H times 10.88%
Col J Sum Col E thru Col I
Col K Future years equal Col D - Col J

Boston Edison Company
Actual 2002 Transition Revenues
\$ in Millions

Line	Description	GWH	A/C #	Per Book \$	Total
1	2002 Transition Billed Revenues:				
2	Residential Transition	4,041.023	440 160	\$ 62.927	
3	Industrial Transition	1,399.261	442 430	22.139	
4	Commercial Transition (includes WR rate and Special Contracts)	9,110.291	442440/500	143.580	
5	Street Light Transition	146.810	444 060	2.316	
6	Total Billed Revenues	14,697.385			\$ 230.963
7	2002 Transition Unbilled Revenues:			Value	
8	Less: Residential Transition Unbilled @ 12/31/01	(149.749)			
9	Plus: Residential Transition Unbilled @ 12/31/02	119.482	440 162	\$ (0.299)	
10	Less: Industrial Transition Unbilled @ 12/31/01	(81.628)			
11	Plus: Industrial Transition Unbilled @ 12/31/02	65.129	442 435	(0.404)	
12	Less: Commercial Transition Unbilled @ 12/31/01	(355.873)			
13	Plus: Commercial Transition Unbilled @ 12/31/02	283.945	442 505	(2.006)	
14	Total Unbilled Revenues	(118.694)			\$ (2.709)
15	Total 2002 Transition Revenues	14,578.691	1.566		\$ 228.254

Boston Edison Company
Summary of Transition Charge - Fixed Component
\$ in Millions

Year	Securitization Principal	Amort.	Interest & Expense	Total
Col. A	Col. B	Col. C	Col. D	Col. E (Col. C + Col. D)
2002	493.566	69.206	36.932	106.138
2003	425.378	68.188	32.519	100.707
2004	356.666	68.712	28.007	96.719
2005	288.206	68.460	23.412	91.872
2006	219.664	68.542	18.680	87.222
2007	151.268	68.396	13.943	82.339
2008	82.660	68.608	9.148	77.756
2009	14.159	68.501	4.332	72.833
2010	-	14.159	1.016	15.174

Boston Edison Company
Summary of Transition Charge - Variable Component
\$ in Millions

Year	Actual Nuclear Decomm.	Actual Power Total Obligations	Actual Power Contracts Market Value	Actual Transmission in Support of Remote Generating Units	Actual Purchased Power Contract Buyouts	Actual Payments in Lieu of Property Taxes	Revenue Credits & Damages, Costs, or net Recoveries	Other	Rate Design Adjustment	Reversal of Prior Year Rate Design Adjustment	Actual Total Variable Component	
Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	Col. G	Col. H	Col. I	Col. J	Col. K	Col. L	Col. M
2002	-	409.929	329.421	80.508	-	-	-	26.625	-	(0.539)	-	106.594
2003	-	371.907	199.374	172.533	-	-	-	31.653	-	4.390	0.539	209.115
2004	-	381.708	272.741	108.967	-	-	-	44.796	-	-	(4.390)	149.373
2005	-	300.288	124.055	176.233	-	-	-	43.114	-	-	-	219.347
2006	-	304.922	125.951	178.971	-	-	-	44.370	-	-	-	223.341
2007	-	305.779	120.926	184.853	-	-	-	4.680	-	-	-	189.533
2008	-	307.188	123.923	183.265	-	-	-	0.780	-	-	-	184.045
2009	-	312.981	127.252	185.729	-	-	-	0.780	-	-	-	186.509
2010	-	326.555	131.899	194.656	-	-	-	0.780	-	-	-	195.436
2011	-	273.098	101.833	171.264	-	-	-	0.780	-	-	-	172.044
2012	-	169.987	67.569	102.418	-	-	-	0.390	-	-	-	102.808
2013	-	170.844	69.353	101.491	-	-	-	-	-	-	-	101.491
2014	-	108.623	48.417	60.206	-	-	-	-	-	-	-	60.206
2015	-	118.075	49.603	68.471	-	-	-	-	-	-	-	68.471
2016	-	97.854	38.574	59.280	-	-	-	-	-	-	-	59.280
Note	Description											
Col. C	2002 BEC-RAP-1 (Supp), p.5, line 15; 2003 BEC-RAP-2 (Supp), p.5, line 15; future years unchanged from DTE 00-82											
Col. D	2002 BEC-RAP-1 (Supp), p.4, line 16; 2003 BEC-RAP-2 (Supp), p.4, line 16; future years unchanged from DTE 00-82											
Col. E	Col C - Col D											
Col. G	No Current Buyouts											
Col. I	Per BEC-JFL-2 (Supp)											
Col. K	DTE 00-82 Settlement Rate Design Adjustment											
Col. L	Reversal of Prior Year Rate Design Adjustment (- Prior Year Col. K)											
Col. M	Col B + Col E + Col F + Col G + Col H + Col I + Col J + Col K + Col L											

Description

Col. C 2002 BEC-RAP-1 (Supp), p.5, line 15; 2003 BEC-RAP-2 (Supp), p.5, line 15; future years unchanged from DTE 00-82
Col. D 2002 BEC-RAP-1 (Supp), p.4, line 16; 2003 BEC-RAP-2 (Supp), p.4, line 16; future years unchanged from DTE 00-82
Col. E Col C - Col D
Col. G No Current Buyouts
Col. I Per BEC-JFL-2 (Supp)
Col. K DTE 00-82 Settlement Rate Design Adjustment
Col. L Reversal of Prior Year Rate Design Adjustment (- Prior Year Col. K)
Col. M Col B + Col E + Col F + Col G + Col H + Col I + Col J + Col K + Col L

Boston Edison Company
Summary of Transition Charge - Incentive
\$ in Millions

Year	Col. A	Base Transition Charge (cents/kWh)	Col. B	Cumulative Rolling Average Transition Charge (cents/kWh)	Col. C	Cumulative Bonus Allowed	Col. D	Nominal Annual Incremental Bonus Required	Col. E	Impact on Transition Charge	Col. F
1998		3.085		3.08				-		-	
1999		2.626		2.86				-		-	
2000		1.818		2.51				-		-	
2001		1.331		2.21							
2002		1.566		2.09		40.462		52.269		0.36	
2003		1.840		2.04		51.032		14.557		0.10	
2004		1.742		2.00		57.931		10.129		0.07	
2005		2.072		2.01		64.079		9.624		0.06	
2006		2.023		2.01		67.114		5.084		0.03	
2007		1.744		1.98		69.595		4.414		0.03	
2008		1.640		1.95		72.291		5.115		0.03	
2009		1.587		1.92		74.178		3.815		0.02	
						75.460		2.763		0.02	

Legend:

2002 see Note below; 2003 and later per Page 1 Col. C
Col. B Cumulative average of current & prior years shown in Col. E
Col. C For any given year based upon cumulative average
Col. D transition charge, interpolate bonus from the table below
Col. E (Col. D current year - Col. D prior year) * (1 + WACC AT)ⁿ
where n = number of years since 1998 +1, and WACC AT is
the weighted cost of capital after-tax equal to 6.61%
Col. F Col. E / Current year GWH sales, Page 1 Col. E

Note: 2002 Col. B per Page 2 adj for BETG Carrying Charge Adjustmer

Assumptions:
1998 \$ NPV Cumulative Bonus/(Penalty)

Rolling Average Access Charge																								
1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		
1.00	\$	21	\$	38	\$	52	\$	63	\$	72	\$	80	\$	85	\$	90	\$	93	\$	96	\$	97	\$	98
1.20		20		36		49		60		68		76		81		86		89		91		92		93
1.40		19		34		47		57		65		72		77		81		84		86		88		88
1.60		18		32		44		53		61		68		73		77		79		81		83		83
1.80		17		31		41		50		58		64		68		72		75		77		78		78
2.00		16		29		39		47		54		60		64		68		70		72		73		74
2.20		14		25		34		41		47		52		56		59		61		62		63		64
2.40		12		21		29		35		40		44		47		50		51		53		54		54
2.60		10		17		23		28		33		36		39		41		42		43		44		44
2.80		8		13		18		22		25		28		30		32		33		34		34		34
3.00		5		10		13		16		18		20		22		23		24		24		25		25
3.20		3		6		8		10		11		12		13		14		14		15		15		15
3.40		1		2		3		3		4		4		4		5		5		5		5		5
3.50		0		0		0		0		0		0		0		0		0		0		0		0